

In the Claims

Please cancel Claims 3, 5-6 and 15-16. Please amend Claim 4, and add Claims 19-24.

Please amend Claim 4 as follows:

C4- 3/4. (Amended) The method of Claim [3] 1, wherein the infectious agent is a virus.

Please add Claims 19-24 as follows:

Subt. 193  
C2  
19. A method of immunizing a vertebrate against influenza virus, said method comprising administering to a vertebrate a DNA transcription unit comprising DNA encoding an influenza virus antigen operatively linked to a promoter region, thereby eliciting a humoral immune response, a cell-mediated immune response or both, against the antigen, whereby the vertebrate is protected from disease caused by influenza virus.

1520. The method of Claim <sup>14</sup>19, wherein the influenza virus antigen is hemagglutinin.

1621. The method of Claim <sup>15</sup>20, wherein the hemagglutinin is subtype H1 or H7.

Subt. 194  
22. A method of immunizing a vertebrate against influenza virus, said method comprising administering to a mucosal surface of a vertebrate a DNA transcription unit comprising DNA encoding an influenza virus antigen operatively linked to a promoter region, in a physiologically acceptable carrier, thereby eliciting a humoral or cell-mediated immune response, or both, against the antigen, whereby the vertebrate is protected from disease caused by influenza virus.